IN THE CLAIMS:

Please cancel claims 1-10. Please also amend claims 11-15 as shown in the complete list of claims that is presented below.

Claims 1-10 (cancelled).

- 11. (original) The semiconductor device fabricating method of claim $\frac{10}{13}$, wherein the fluorocarbon gas includes at least one selected from the group consisting of C_4F_8 , C_5F_8 , C_4F_6 and C_3F_6 .
- 12. (currently amended) The semiconductor device fabricating method of claim 10, 13, wherein the low-k film is one selected from the group consisting of an organic SOG film, an SiOC film and a pure organic film.
- 13. (original) The A semiconductor device fabricating method of claim 10, fabricating method comprising the steps of:

forming a first interconnection;

forming a low-k film as an interlayer insulating film on the first interconnection;

forming a contact hole for electrically connecting the first interconnection and a

second interconnection, in the interlayer insulating film comprising the low-k film; and

forming an interconnection groove for embedding the second interconnection in the interlayer insulating film comprising the low-k film.

wherein, in at least one of the hole forming step and the interconnection groove forming step, plasma etching is conducted under a gas atmosphere including a fluorocarbon gas, O₂ gas and Ar gas, and under the conditions of a pressure of 60 mTorr (7999.32 mPa) or higher and a high-frequency output (RF power) of 600 W or less, and

wherein an etch stop layer is not formed under in the interlayer insulating film comprising the low-k film.

- 14. (currently amended) The semiconductor device fabricating method of claim $\frac{10}{12}$, wherein a ratio of O_2 to a combined amount of the fluorocarbon gas and O_2 is 20 to 50%.
- 15. (currently amended) The semiconductor device fabricating method of claim 10, 13, wherein, in both of the hole forming step and the interconnection groove forming step, plasma etching is conducted under a gas atmosphere including a fluorocarbon gas, O₂ gas and Ar gas, and under the conditions of a pressure of 60 mTorr (7999.32 mPa) or higher and a high-frequency output (RF power) of 600 W or less.